

Engage

- How do animals survive their environment?
- How do animals survive a changing environment?
- What is causing changes to the environment?
- What can we do to help animals survive their environment?



Explore

Case Study: Sun Sand Salt and Survival on South Stradbroke Island (QML Kits)

1. Sandy Beaches
2. Frontal Dunes
3. Mangroves
4. Swamp
5. Mixed woodland



Issues to consider:

1. Conditions for survival and sources of food:
 - What conditions do I have to be able to survive?
 - What do I eat?
2. Adaptations to survival and obtaining food:
 - How do I survive the conditions?
 - How do I catch my food?

What to do

1. Divide group into groups of two or three.
2. Select a zone to study (Fold out zonal information)
3. Obtain a selection of specimens for each zone
4. Consider and respond to issues of survival (conditions and food)
5. Highlight unresolved questions

Resources:

- Zone information card
- Specimens
- Sheet #1

Explain

Find explanations for unresolved questions.

What to do

1. Share what you have found with others and try to resolve unanswered questions.
2. Consult information cards for further information.
3. Research further if required.



Elaborate

A. Specimen study: looking closely at the local environment

- Looking closely through specimen analysis
- What can we learn by looking closely?
- Model analysis activity



What to do

1. Divide group into groups of two or three.
2. Select a specimen for close study.
3. Perform specimen analysis (Sheet #2)
4. Respond to issues for survival (Sheet #1)
5. Share responses

Resources:

- Specimen
- Sheet #2
- Sheet #1

B. Human impacts on sustainability:

1. How well would your specimen cope with:
 - a. Changes to conditions?
 - b. Changes to food sources?
2. What are some of the impacts that humans make on
 - a. Conditions for survival and
 - b. Sources of food?

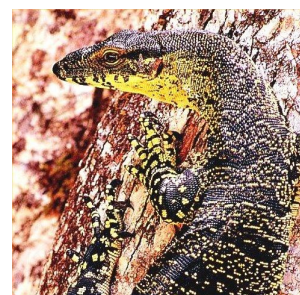


Evaluate

- Reflect on the ways that animals can survive their environment.
- Presentations could focus on one of the key questions posed at the engagement phase.

What can we do to help animals survive their environment?

- Format for presentations could be in a variety of formats and media including exhibitions and displays.



Specimen: _____ Environment: _____

Questions	What my group thinks	What is the evidence?
What conditions do I have to be able to survive? <ul style="list-style-type: none">• Temperature• Water		
How do I survive the conditions? <ul style="list-style-type: none">• Features• Behaviour		
What do I eat? <ul style="list-style-type: none">• Plants• Animals		
How do I catch and eat my food? <ul style="list-style-type: none">• Features• Behaviour		

<p>What eats me?</p> <ul style="list-style-type: none">• Animals		
<p>How do I avoid being eaten?</p> <ul style="list-style-type: none">• Features• Behaviour		

Questions my group would like answered: